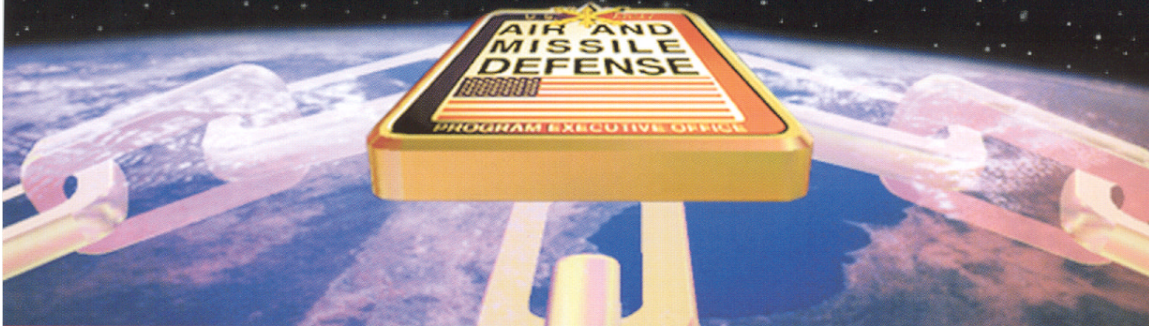


United States Army  
**Program Executive Office**  
**Air and Missile Defense**  
Huntsville, Alabama



## **JTAGS**

*Tactical Missile Warning*

*Real-Time Data Processing /  
Dissemination*

*Direct Warfighting Data Downlink*

*Joint Service Manning*

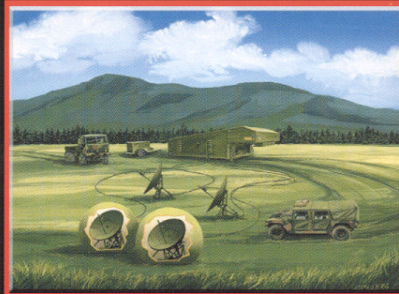
*Support to All TMD Pillars*

*Single-Point Failure Elimination*

**JTAGS**



**M<sup>3</sup>P**



***JTAGS Protecting the Force Today . . .***  
***M<sup>3</sup>P Protecting the Warfighter of the 21st Century***





## United States Army Program Executive Office Air and Missile Defense



Huntsville, Alabama

February 2002

# Joint Tactical Ground Station (JTACS)

## Introduction

The Joint Tactical Ground Station (JTACS) is a transportable information processing system that supports forward-deployed Commanders in Chief (CINCs) with early warning data on ballistic missile launches. The five JTACS systems are a key part of CINCSpace's Tactical Event System and are operated by joint Army-Navy crews, providing continuous, all-weather threat monitoring. As an in-theater asset, JTACS is assured data receipt from sensors and transmits processed information over a variety of in-theater communication assets.

The rapid design, development, and fielding of the JTACS systems within 4.5 years of direction-to-proceed is an example of the Army's capability to "fast track" vital equipment procurement to support soldiers with the best equipment for mission accomplishment. Currently, JTACS units are fielded overseas as well as to CONUS-based contingency units.

## Mission

JTACS provides the Theater Commander in Chief a deployable in-theater capability to receive, process, and disseminate space-based infrared sensor information on tactical ballistic missile launches and other events.

## System Description

JTACS is an essential link for the Theater Commander's situational awareness. Operational benefits include:

- Cueing of active theater missile defense systems for missile intercept
- Cueing attack operations assets to find and destroy enemy launch capability
- Timely warning for the protection of friendly forces and population. JTACS processes, in real time, direct downlinked data for up to three Defense Support Program sensors and future Space Based Infrared Satellite System (SBIRS) sensors.

JTACS utilizes Ultra High Frequency Satellite Communications (UHF SATCOM) networks as well as direct hardware communications to distribute information to theater users. JTACS interfaces with the Joint Tactical Information

Distribution System (JTIDS) and other tactical networks through organic communications equipment. A JTACS unit includes a shelter equipped with satellite antennas, receivers, processors, displays, and communication interfaces. Each JTACS unit has three portable 8-ft dish antennas. A JTACS shelter is powered by either tactical generators (60 kW) or commercial power if available.

## Multi-Mission Mobile Processor (M<sup>3</sup>P)

The name M<sup>3</sup>P reflects the evolution of JTACS as the joint service solution for a mobile processor that will link both strategic and theater users to the new SBIRS that replaces the older DSP satellites. This joint acquisition development was initiated by agreement of service acquisition executives and was followed by a successful proposal by the SBIRS contractor. The Army altered a pre-planned improvement program to transition JTACS from use of DSP satellites and is now working with the Air Force to develop the M<sup>3</sup>P. As an integrated system-of-systems architecture under CINCSpace, the common mobile concept will allow the Army in-theater M<sup>3</sup>P to perform the critical theater missions and the Air Force M<sup>3</sup>P to perform the critical strategic mission with significant DoD cost savings.

The M<sup>3</sup>P will provide significant improvements in all areas of theater missile defense performance with a significantly reduced missile warning area, higher quality cueing of active defense systems, decreased missile launch search area, and faster initial report times. The M<sup>3</sup>P utilizes SBIRS common-based software for improved tracker performance, message correlation, and future upgrades. Other benefits include enhanced situational awareness through dual-monitor workstations, improved communications, enhanced antennas, redundant processors, and improved supportability.

### For more information, please contact:

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### Visit the PEO AMD website:

<http://peoamd.redstone.army.mil>